No. 154 CROSSING SIGNAL

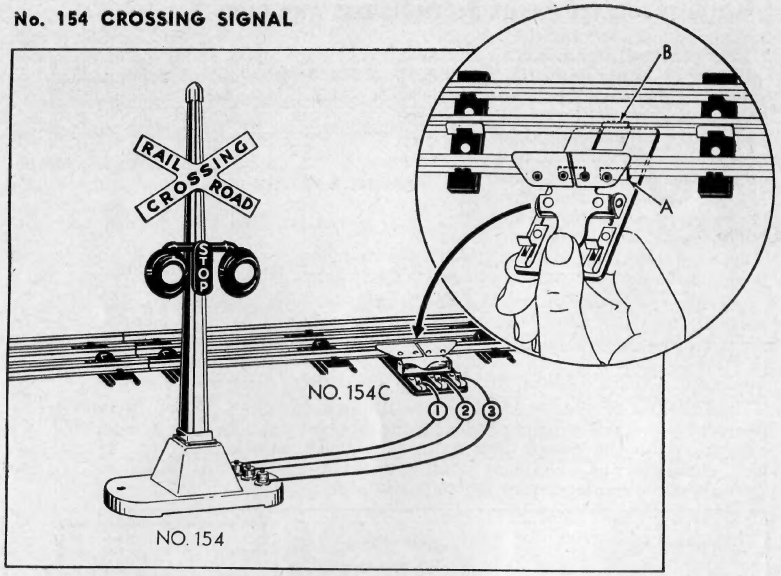

Figure 43—How to Install No. 154 Crossing Signal

No. 154 Crossing Signal is connected directly to the track by means of the No. 154C Contactor. Attach the contactor to the track by pressing down the spring lever to raise the contact plate as shown in the inset of Figure 43; then place contactor under the track with clip "A" gripping the flange of outside rail, snap spring clip "B" over the center rail, and release the spring lever.

As the wheels of the train roll over the contactor surface, the red warning lights of the Crossing Signal will blink alternately.

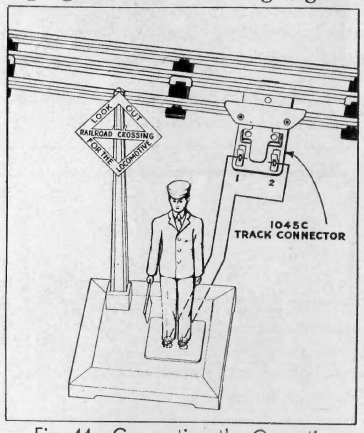

Fig. 44—Connecting the Operating Flagman

No. 1045 FLAGMAN

An accessory somewhat similar in operation to No. 154 Crossing Signal is No. 1045 Operating Flagman, who waves a warning flag as the train goes by a crossing.

The Flagman is connected directly to the track by means of the No. 1045C Contactor which is clamped on to any section of straight track in the same way as No. 154C Contactor. No. 1045 Flagman and its track connections are shown in Figure 44. You will notice that the inside of contact plate of both 1045C and 154C Contactors has a layer of insulating paper. This layer keeps the electrical circuit normally open. Whenever a car truck passes over the contactor the circuit is completed through the car wheels and the flagman operates. Keep top of contactor clean.

"Clean and Lubricate Your Equipment"

ILLUMINATED ACCESSORIES

A wide variety of Lionel illuminated accessories, such as lamp posts, station platforms, floodlights, beacons, and other realistic pieces of model railroad equipment, is available. The voltage required by various illuminated accessories depends upon the lamps used. With few exceptions it is generally 12-14 volts.

Illuminated accessories should be connected directly to the transformer whenever possible. After you have found what voltage is required, (See Page 34) select the pair of binding posts which give nearest to the required voltage and connect them to the binding posts or contact clips of the accessory.

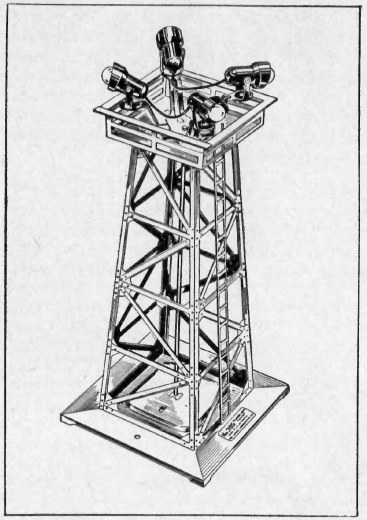

Figure 46—No. 395 Floodlight Tower

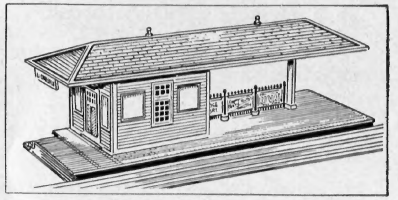

Figure 45—No. 256 Freight Shed

When illuminated accessories are connected to binding posts whose voltage is not "fixed" but is controlled by dials, such as in transformers VW or ZW, take care not to turn the voltage control to a point greater than specified for the accessories, or the lamps will be quickly burned out. As a general rule the life of the lamps will be greatly extended if they are operated a little below their rated voltage.

PARALLEL CONNECTIONS

In the event you have several illuminated accessories requiring the same voltage it is advisable to use the same pair of transformer binding posts for all of them, wiring them together in "parallel" as shown in Figure 47. Two main feeders go to the transformer posts and individual wires go from these feeders to the accessories. In this way unnecessary wiring is eliminated.

Remember that if two or more 14-volt accessories are wired together in "parallel", they must still be connected to the 14-volt posts on the transformer and not to posts which give the total of the voltages required by individual accessories.

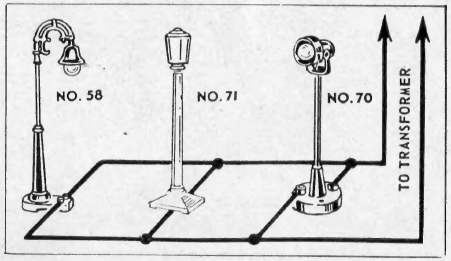

Figure 47—Parallel Wiring of Accessories

"Wipe Your Track Regularly"